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Diploma in Pharmacy 1<sup>st</sup> Year  
Pharmaceutical Chemistry  
Important Questions  
Chapter 8 : Diuretics

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# Chapter 8

## Diuretics

### IMPORTANT Questions

**Q1. What are the diuretics write any two drugs Acetazolamide, frusemide,**

**Ans.**

- Drugs promoting urine output are known as diuretic drugs, which refer only to those agents that act directly on the kidneys.
- These drugs primarily increase the excretion of water and ions like sodium ( $\text{Na}^+$ ), chloride ( $\text{Cl}^-$ ), or bicarbonates ( $\text{HCO}_3^-$ ) from the body.
- Glomerular filtration, tubular reabsorption, and tubular secretion in kidneys determine the excretion of substances
- It is also employed in the treatment of various disorders like diabetes insipidus, nephrotic syndrome, hypertension, nutritional oedema, oedema of pregnancy, and liver cirrhosis.
- They also decrease the intracellular and cerebrospinal fluid pressure

#### Examples

Examples of diuretics are given below:

1. Acetazolamine
2. Furosemide
3. Bumetanide

#### Acetazolamide

- Acetazolamide is the prototype carbonic anhydrase inhibitor.
- This type of diuretics inhibit carbonic anhydrase enzyme in the membrane and cytoplasm of epithelial cell.

#### Uses

- Acetazolamide is self-limiting in nature.
- It produces adverse effects like acidosis and hypokalaemia.
- Thus, it is not used as a diuretic anymore; instead, it is currently being employed in the treatment of
  - Glaucoma
  - Alkalinising Urine
  - Epilepsy
  - Acute Mountain Sickness

#### Stability and Storage Conditions

- It can be stored up to 48 months.
- It should not be stored above  $25^\circ\text{C}$ .
- It should be stored in the original pack in order to protect from light and moisture.

#### Types of Formulations

- Capsules, Tablets

#### Popular Brand Names

- ◆ Diamox, Diamox Sequels

## **Furosemide**

→ Furosemide is a benzoic-sulfonamide-furan with fast onset and short duration of action. It is used for treating oedema and chronic renal insufficiency

### **Uses**

- It is used for the treatment of oedema related to congestive heart failure, liver cirrhosis, and renal disease.
- It is also used either alone or with other antihypertensive agents for the management of hypertension.

### **Stability and Storage Conditions**

- It should be kept at room temperature from 59°F (15°C) and 86°F (30°C).
- This drug should be kept away from light.
- This medication should not be stored in moist or damp areas like bathrooms.

### **Types of Formulations**

📌 Tablet, Solution

### **Popular Brand Names**

➤ Lasix, Diaqua-2, Lo-Aqua

